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Abstract

PROBLEM TO BE SOLVED: To obtain a foam almost free from the decomposition product formed as a result of the dehydrofluorination reaction of pentafluoropropane by foaming a polyol and an organic polyisocyanate by using an organometallic catalyst or/and an imidazole catalyst in the presence of 1,1,1,3,3-pentafluoropropane and a stabilizer therefor.

SOLUTION: A process comprising using 1,1,1,3,3-pentafluoropropane (HFC-245 fa) as a substitute for an R-11 blowing agent in the production of a rigid polyurethane foam is provided. The polyol used is a common one used in the production of a rigid polyurethane foam, such as a polyether polyol or a polyester polyol. The organic polyisocyanate used is exemplified by polymethylenepolyphenyl isocyanate. The blowing agent may be a mixture of HFC-245fa with water and is used in an amount of about 1 to 100 pts.wt. per 100 pts.wt. polyol. The stabilizer used is exemplified by a nitro compound, an alkenyl-containing compound or an epoxy-containing compound.

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